



### Features and Benefits

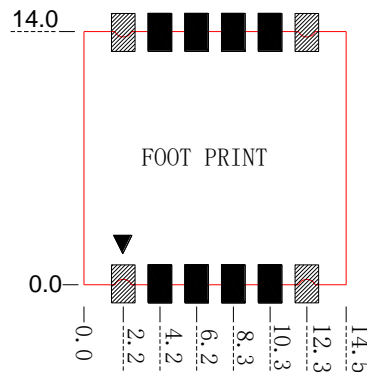
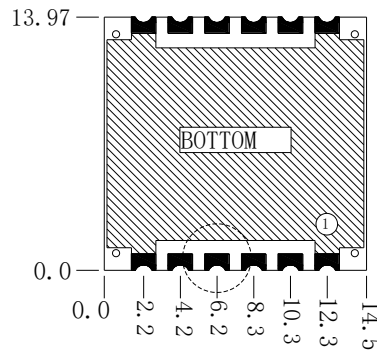
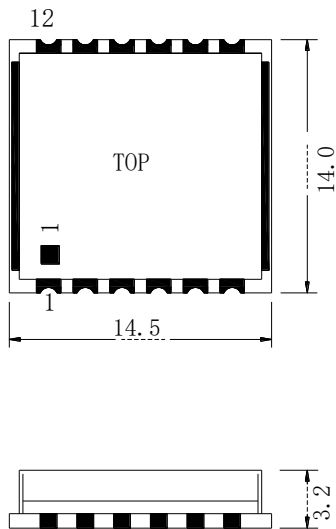
- Frequency Range:1357-1397MHz
- Supply Voltage:5.0V
- Current: 30mA Max.
- 3 wire serial integer PLL
- Output power: +4.0dBm Max.
- Phase noise: -105dBc/Hz@10KHz
- Operating temperature: -40°C--+85°C
- Size:14.5x14x3.2mm

### Typical Applications

- Base station
- Cable TV
- Satellite Communications
- UHF radio link

### Mechanical Drawing & Pin Connections

Drawing No: MD240061-1



Pin Connections:

Pin	Function
1	GND
2	CLK
3	Vcc(VCO)
4	Lock Detect
5	RF Out
6&7	GND
8	Ref. IN
9	Vcp(PLL)
10	DATA
11	LE
12	GND

Unit in mm

1mm = 0.0394 inches



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1H Ĩ -1HJĨ MHz SMD PLL Synthesizer

## Specifications

Parameter	Units	Min.	Typical	Max.
Operating Frequency Range	MHz	1357		1397
Output Power	dBm	0	+2.0	+4.0
Step Size	KHz		120	
Settling Time	msec		10	30
Output Impedance	$\Omega$		50	
Phase Noise @1kHz offset	dBc / Hz		-73	-68
Phase Noise @10kHz offset	dBc / Hz		-105	-100
Phase Noise @100kHz offset	dBc / Hz		-127	-122
Phase Noise @1MHz offset	dBc / Hz		-143	-138
2nd Harmonic Suppression	dBc		-27	-20
Sideband Spurious Suppression	dBc			-65
Reference (input frequency)	MHz	5		100
Reference (input level)	dBm	-5		+5
VCO Power Supply (Vcc) Voltage	Vdc		5	
VCO Power Supply (Vcc) Current	mA		23	30
PLL Power Supply (Vcp) Voltage	Vdc		5	
PLL Power Supply (Vcp) Current	mA		5	10
Operating Temperature Range	$^{\circ}\text{C}$	-40		+85